

In the Claims

1 (currently amended). A hemizygous transgenic mouse whose germ cells and somatic cells contain (i) an inactive endogenous mouse inducible nitric oxide synthase gene, and (ii) a transgene encoding the human inducible nitric oxide synthase gene, said transgene comprising including all regulatory elements of the human nitric oxide synthase gene necessary for a human pattern of expression of said transgene in said transgenic mouse, ~~said human pattern of expression characterized in that~~ wherein lipopolysaccharide (LPS) inducers induce essentially no increase in iNOS activity in phagocytic cells of said mouse as measured by nitric oxide release as compared to the corresponding wild-type mouse;

said expression further characterized in that said phagocytic cells display low-output nitric oxide release as compared to those of the corresponding wild-type mouse when maximally stimulated.

2 (cancelled).

3 (previously presented). A method of determining if a compound is capable of inducing Alzheimer's disease, comprising administering said compound to the transgenic mouse of claim 1, and then examining said mouse for the development of said disease.

4 (previously presented). A method of determining if a compound is capable of inducing Multiple Sclerosis, comprising administering said compound to the transgenic mouse of claim 1, and then examining said mouse for the development of said disease.

5 (previously presented). A method of determining if a compound is capable of inducing Inflammatory Bowel Disease, comprising administering said compound to the transgenic mouse of claim 1, and then examining said mouse for the debvelopment of said disease.

6 (previously presented). A method of determining if a compound is capable of inducing Rheumatoid arthritis, comprising administering said compound to the transgenic mouse of claim 1, and then examining said mouse for the development of said disease.

7 (previously presented). A method of screening a compound for activity in treating Alzheimer's disease, comprising administering said compound to the transgenic mouse of claim 1, and then examining said mouse for the treatment of said disease.

8 (previously presented). A method of screening a compound for activity in treating Multiple Sclerosis, comprising administering said compound to the transgenic mouse of claim 1, and then examining said mouse for the treatment of said disease.

9 (previously presented). A method of screening a compound for activity in treating Inflammatory Bowel Disease, comprising administering said compound to the transgenic mouse of claim 1, and then examining said mouse for the treatment of said disease.

10 (previously presented). A method of screening a compound for activity in treating Rheumatoid arthritis, comprising administering said compound to the transgenic mouse of claim 1, and then examining said mouse for the treatment of said disease.

11 (cancelled)